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Notice of Allowability	Application No.	Applicant(s)	
	09/940,591	SAKAI ET AL.	
	Examiner	Art Unit	-
	Kevin L McHenry	1725	
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in 85) or other appropriate commul F RIGHTS . This application is su 313 and MPEP 1308.	this application. If not included nication will be mailed in due co	ourse. THIS
1. This communication is responsive to interview of 18 Fe	<u>bruary 2004</u> .		
2. 🛮 The allowed claim(s) is/are <u>2-13</u> .			
3. The drawings filed on are accepted by the Exam	iner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents h 2. Certified copies of the priority documents h 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which (a) Including changes required by the Notice of Draftsp 1) hereto or 2) to Paper No./Mail Date	ave been received. ave been received in Application documents have been received E" of this communication to file a NMENT of this application. bmitted. Note the attached EXAI gives reason(s) why the oath or one of the submitted. erson's Patent Drawing Review er's Amendment / Comment or in	in No in this national stage application a reply complying with the requi- MINER'S AMENDMENT or NOT declaration is deficient. (PTO-948) attached In the Office action of	rements FICE OF
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such it	R 1.84(c)) should be written on the in the header according to 37 CFR	e drawings in the front (not the ba 1.121(d).	ick) of
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN 	posit of BIOLOGICAL MATEI IT FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Not LOGICAL MATERIAL.	e the
Attachment(s)			
1. Notice of References Cited (PTO-892)		rmal Patent Application (PTO-1	52)
 Notice of Draftperson's Patent Drawing Review (PTO-948 		nmary (PTO-413), lail Date <u>02/18/04</u> .	
 Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date 11/5/01 	B/08), 7. ⊠ Examiner's A	mendment/Comment	
 ☐ Examiner's Comment Regarding Requirement for Deposit 		tatement of Reasons for Allowa	nce
of Biological Material	9. 🔲 Other		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Melanie Mealy on 17 February 2004.

The application has been amended as follows:

Cancel claim 1

In claim 2, line 2, replace "arranged between" with --in communication with fuel in--

In claim 2, lines 2-4, delete "and an injector of an engine, or arranged in a tank of a gas station fuel tank or a tanker truck"

In claim 4, line 2, delete "salt filtering off"

In claim 5, line 2, replace "arranged between" with --in communication with fuel in--

In claim 5, lines 2-4, delete "and an injector of an engine or arranged in a gas station fuel tank or a tanker truck"

In claim 7, line 2, delete "salt filtering off"

Add the following new claims:

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- 8. The apparatus according to claim 2, wherein said apparatus is between the fuel tank and an injector of an engine.
- 9. The apparatus according to claim 2, wherein the fuel tank is a gas station fuel tank.
- 10. The apparatus according to claim 2, wherein the fuel tank is in a tanker truck.
- 11. The apparatus according to claim 5, wherein said apparatus is between the fuel tank and an injector of an engine.
- 12. The apparatus according to claim 5, wherein the fuel tank is a gas station fuel tank.
- 13. The apparatus according to claim 5, wherein the fuel tank is in a tanker truck.

Allowable Subject Matter

- 2. Claims 2-13 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the instant application is considered to be a nonobvious improvement over the invention of Monticello (U.S.P. 5,496,729) or Kilbane, II (U.S.P. 5,104,801). The improvements comprise the combination of a sulfur-containing compound removing apparatus in communication with a fuel in a fuel tank, wherein the apparatus includes a sulfur adsorbent, a sulfur oxidizing agent or oxidation catalyst that is immobilized in the adsorbent or coexists with the sulfur containing compound, an adsorbent that coexists

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with the sulfur adsorbent and catalyst or is arranged at a lower stream for adsorbing sulfur-containing oxide, and a sulfur-containing oxide salt removing means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Monticello (U.S.P. 5,496,729), Kilbane, II (U.S.P. 5,104,801), Lesieur et al. (U.S.P. 6,129,835), Lesieur et al. (U.S.P. 6,454,935), Gleim et al. (U.S.P. 2,988,500), Kirshenbaum (U.S.P. 2,975,103), Gleim (U.S.P. 3,108,081), Dodwell (U.S.P. 6,429,170), Zinnen et al. (U.S.P. 5,843,300), Holland et al. (U.S.P. 4,343,693), Johnson et al. (U.S.P. 6,071,738), Valentine (U.S.P. 5,874,294), Olson (U.S.P. 6,124,130), Chang et al. (U.S.P. 6,204,046), and Monot et al. (U.S.P. 6,337,204) are cited of interest for illustrating the state of the art in desulphurization processes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin L McHenry whose telephone number is (571) 272-1181. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin McHenry

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